

Notice of Allowability

Application No.

09/872,066

Examiner

Mohammad A. Siddiqi

Applicant(s)

PAUL ET AL.

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/21/2006.
2. ☒ The allowed claim(s) is/are 56-63 (rearranged claims are 1-8).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

LARRY D. DONAGHUE
PRIMARY EXAMINER

DETAILED ACTION

1. Claims 56-63 are allowed.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview Daniel Ledesma with on 10/16/2006.

In the Specification:

Please replace the page 1 in the specification as set forth in Appendix 1.

Please replace the page 77 in the specification as set forth in Appendix 1.1.

In the Claims:

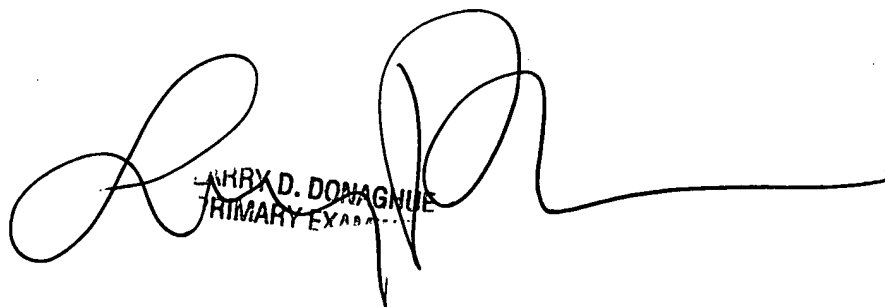
Please replace claims 60-63 as set forth in Appendix 2.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad A. Siddiqi whose telephone number is (571) 272-3976. The examiner can normally be reached on Monday -Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAS



HARRY D. DONAGHY
PRIMARY EXAMINER

Appendix 1

MAINTAINING STATE INFORMATION IN MOBILE APPLICATIONS

CLAIM OF PRIORITY

This application claims priority to U.S. provisional application serial number 60/222,817, filed August 4, 2000 entitled "Techniques for implementing mobile and industrial database applications" by Jyotirmoy Paul, Jeff Barton, Anit Chakraborty and Siva Dirisala, hereby incorporated by reference in its entirety. This application also claims priority to and is a Continuation-In-Part of U.S. application serial number 09/631,884, filed August 4, 2000 entitled "Multi-device Support for Mobile Applications Using XML" by Jyotirmoy Paul, Jeff Barton, Anit Chakraborty and Siva Dirisala, hereby incorporated by reference in its entirety.

CROSS REFERENCE TO RELATED APPLICATIONS

This application is related to U.S. Patent No. 7,051,080, filed May 31, 2001 entitled "Techniques for Navigating in Mobile Applications," by Jyotirmoy Paul, Jeff Barton, Anit Chakraborty and Siva Dirisala.

This application is related to U.S. patent application serial number

Application/Control Number: 09/872,066
Art Unit: 2154

Page 5

09/872,566, filed May 31, 2001 entitled "Techniques for Supporting Multiple Devices in Mobile Applications," by Jyotirmoy Paul, Jeff Barton, Anit Chakraborty and Siva Dirisala.

This application is related to U.S. Patent No. 7,013,329, filed May 31, 2001 entitled "Techniques for

Appendix 1.1

806. Transmission media includes coaxial cables, copper wire and fiber optics, including the wires that comprise bus 802. Transmission media can also take the form of acoustic or light waves, such as those generated during radio-wave and infra-red data communications.

Common forms of computer-readable storage media include, for example, a floppy disk, a flexible disk, hard disk, magnetic tape, or any other magnetic medium, a CD-ROM, any other optical medium, punchcards, papertape, any other physical medium with patterns of holes, a RAM, a PROM, and EPROM, a FLASH-EPROM, any other memory chip or cartridge, and transmission media including a carrier wave as described hereinafter, or any other medium from which a computer can read.

Various forms of computer readable media may be involved in carrying one or more sequences of one or more instructions to processor 804 for execution. For example, the instructions may initially be carried on a magnetic disk of a remote computer. The remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line using a modem. A modem local to computer system 800 can receive the data on the telephone line and use an infra-red transmitter to convert the data to an infra-red signal. An infra-red detector can receive the data carried in the infra-red signal and appropriate circuitry can place the

data on bus 802. Bus 802 carries the data to main memory 806, from which processor 804 retrieves and executes the instructions. The instructions received by main memory 806 may optionally be stored on storage device 810 either before or after execution by processor 804.

Computer system 800 also includes a communication interface 818 coupled to bus 802. Communication interface 818 provides a two-way data communication coupling to a network link 820 that is connected to a local network 822. For example, communication interface 818 may be an integrated services digital network ("ISDN") card or a modem to provide a data communication connection to a corresponding type of telephone line. As another example, communication interface 818 may be a local area network ("LAN") card to provide a data communication connection to a compatible LAN. Wireless links may also be implemented. In any such implementation, communication interface 818 sends and receives

Appendix 2

60. A machine-readable storage medium carrying one or more sequences of instructions for communicating with a mobile device, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of: receiving, at a mobile interactions server, first registration data from a first application of a plurality of applications, wherein the first registration data specifies rules about how mobile devices are allowed to interact with the first application; receiving, at the mobile interactions server, second registration data from a second application of the plurality of applications, wherein the second registration data specifies rules about how mobile devices are allowed to interact with the second application; wherein said first application is distinct from said second application; wherein the plurality of applications each do not execute on any of said mobile devices; the mobile interactions server operating as an intermediary for interactions between mobile devices and each of the plurality of applications; and while operating as an intermediary, the mobile interactions server enforcing the rules about how mobile devices are allowed to

interact with each of the plurality of applications, wherein each of the plurality of applications is relieved of the responsibility of enforcing the rules about how mobile devices are allowed to interact with each of the plurality of applications.

61. The machine-readable storage medium of Claim 60, wherein execution of the one or more sequences of instructions by the one or more processors causes the one or more processors to perform the steps of:

storing, at the mobile interactions server, device data that describes the characteristics of the mobile device.

62. The machine-readable storage medium of Claim 61, wherein execution of the one or more sequences of instructions by the one or more processors causes the one or more processors to perform the steps of: transforming, based on the device data, response data received from the first application to create transformed response data, wherein the transformed response data is in a format readable by the mobile device; and transmitting the transformed response data to the mobile device.

63. The machine-readable storage medium of Claim 61, wherein the step of transforming the response data to create transformed response data comprises the steps of:
- determining a portion of the response data that is capable of being simultaneously displayed on the mobile device based, at least in part, on the device data;
 - transforming the portion into a transformed portion, wherein the transformed portion is in a format readable by the mobile device; and
 - transmitting the transformed portion to the mobile device without transmitting any remaining portion of the response data.